Family list
7 family members for:
WO2004046066
Derived from 7 applications.

1 **METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: AU2003277595 A1 - 2004-06-15

2 **A METHOD FOR DEUTERATION OF A HETEROCYCLIC RING**
Publication info: CA2506010 A1 - 2004-06-03

3 **Method for deuteration or tritiation of heterocyclic ring**
Publication info: CN1714060 A - 2005-12-28

4 **METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: EP1561741 A1 - 2005-08-10

5 **METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
Publication info: RU2005118416 A - 2006-03-20

6 **Method for deuteration or tritiation of heterocyclic ring**
Publication info: US2006025596 A1 - 2006-02-02

7 **METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING**
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METHOD FOR DEUTERATION OR TRITIATION OF HETEROCYCLIC RING

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- european: C07B59/00D; C07D209/20; C07D213/16C; C07D231/12B1; C07D233/54C; C07D233/54C2B; C07D235/06B; C07D239/54B1; C07D471/04; C07D473/30; C07H19/067; C07H19/167
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Abstract of **WO2004046066**

A method for deuteration or tritiation of a heterocyclic ring, characterized in that it comprises allowing a heterocyclic compound to be present under a sealing and refluxing condition in a deuterated or tritiated solvent in the presence of an activated catalyst selected from among a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst. The method allows a deuteration or tritiation temperature to be kept at a temperature higher than the boiling temperature of the solvent, which results in the replacement of a hydrogen atom in a heterocyclic ring of heterocyclic compound with very good efficiency. Further, the method can be widely used for the deuteration or tritiation of various types of heterocyclic compounds being decomposed under a supercritical condition or an acidic condition, and thus can be used for efficient deuteration or tritiation of heterocyclic compound in a commercial process.